

CLAIMS

What is claimed is:

1. An inspection apparatus for inspecting a processing accuracy of a workpiece processing apparatus,

said workpiece processing apparatus having a moving mechanism for mounting thereon a workpiece and a workpiece processing mechanism so that a workpiece surface is processed while performing a relative movement between the workpiece and said workpiece moving mechanism,

said inspection apparatus comprising:

stippling means mounted on said moving mechanism in a side-by-side relationship with said workpiece processing mechanism, said stippling means performing visibly recognizable stippling onto the workpiece by irradiating coherent light onto the workpiece as a result of relative movement between the workpiece and said workpiece processing mechanism; and

stippling control means for driving said stippling means to perform the stippling at a predetermined frequency timing.

2. An inspection apparatus for inspecting a drawing accuracy of a liquid droplet ejection apparatus,

said liquid droplet ejection apparatus having a moving mechanism for mounting thereon a workpiece and a function liquid droplet ejection head, said moving mechanism performing a relative movement between the workpiece and said function liquid droplet ejection head so as to selectively eject the function liquid droplet from said function liquid droplet ejection head to perform drawing,

said inspection apparatus comprising:

stippling means mounted on said moving mechanism in a side-by-side relationship with said function liquid droplet ejection head, said stippling means performing visibly recognizable stippling onto the workpiece by irradiating coherent light onto the workpiece as a result of relative movement between the workpiece and said function liquid droplet ejection head; and

stippling control means for driving said stippling means to perform the stippling at a predetermined frequency timing.

3. The inspection apparatus according to claim 2, further comprising image recognition means for recognizing an image as a result of stippling by said stippling means.

4. The inspection apparatus according to claim 2, wherein said stippling means is made up of a laser irradiating mechanism which oscillates or focuses a laser beam.

5. The inspection apparatus according to claim 2, wherein said stippling control means drives said stippling means to perform stippling based on an ejection timing signal obtained from a head driver of said function liquid droplet ejection head.

6. The inspection apparatus according to claim 5, wherein said function liquid droplet ejection head ejects a function liquid for drawing inspection purpose, and wherein said stippling control means drives said stippling means to perform stippling in a manner synchronized with driving of said function liquid droplet ejection head.

7. The inspection apparatus according to claim 6, wherein said stippling control means comprises delaying means for delaying the stippling by the stippling means by a period equivalent to a duration from ejection of the function liquid by said function liquid droplet ejection head until landing of the function liquid on the workpiece.

8. The inspection apparatus according to claim 2, further comprising a target plate provided in a side-by-side relationship with the workpiece, instead of a stippled portion of the workpiece.

9. The inspection apparatus according to claim 2, further comprising a dummy workpiece for inspection purpose, instead of the workpiece.

10. A liquid droplet ejection apparatus comprising the inspection apparatus for inspecting a drawing accuracy of a liquid droplet ejection apparatus according to claim 2.

11. A workpiece which is stippled by the liquid droplet ejection apparatus according to claim 10, wherein the workpiece has, outside an area for function liquid droplet ejection, a stippling area for stippling by said stippling means and a drawing area for inspection purpose for drawing said function liquid droplet ejection head.

12. The workpiece according to claim 11, wherein said stippling area is coated with a coloring matter whose color is developed or changed by light irradiated from the stippling means.

13. An electro-optic device comprising a deposited portion formed by ejecting a function liquid onto a workpiece from said function liquid droplet ejection head, by using the liquid droplet ejection apparatus according to claim 10.

14. A method of manufacturing an electro-optic device, wherein a deposited portion is formed by ejecting a function liquid droplet onto a workpiece from the function liquid droplet ejection head, by using said liquid droplet ejection apparatus according to claim 10.

15. An electronic equipment having mounted thereon the electro-optic device according to claim 13.

16. An electronic equipment having mounted thereon the electro-optic device manufactured by the method of manufacturing an electro-optic device according to claim 14.